**Scientific Method Lab   (Tissue Box Project)                DUE: Friday August 26, 2011**

You will conduct a scientific experiment **at home**.  The results of your experiment will be displayed on a (full) tissue box.  You can be as creative as you choose to be with the decoration of the box. The following items need to be clearly labeled:

1.     **Title** – brief description of your experiment

2.     **Hypothesis** – what you think is going to happen

3.     **Experiment** – describe how you tested your hypothesis

4.     **Independent Variable** – what you controlled in the experiment

5.     **Dependent Variable** – what you measured in the experiment

6.     **Control** – things that were the same throughout the experiment

7.     **Results/Data** – record of your observations/measurements

8.     **Conclusion** – was your hypothesis correct?

**Some possible topics for your project:**

* Does the swing of the pendulum take longer for an object of greater mass?
* Does the length of the string affect how fast a pendulum swings?
* Does the color of food or drinks affect whether or not we like them?
* Which kind of foods do dogs (or any animal) prefer best? *(parental permission required)*
* Which paper towel brand is the strongest?
* What is the best way to keep an ice cube from melting?
* How effective are child-proof containers and locks.
* Can background noise levels affect how well we concentrate?
* Do athletic students have better lung capacity?
* What brand of battery lasts the longest?
* Does the color of hair affect how much static electricity it can carry?
* How much mass can the surface tension of water hold?
* Which soda decays teeth the fastest? (use eggshells as an alternative to teeth)
* Does the color of birdseed affect how much birds will eat it?  *(parental permission required)*
* Can people tell artificial smells from real ones?
* Does age affect human reaction times?
* What is the effect of salt on the boiling temperature of water?
* Does shoe design really affect an athlete's jumping height?
* Which bat hits a baseball farther, an aluminum or wooden bat?
* Which material heats up faster - soil or water?  Which one holds on to heat the longest?

\*\***For extra points**: On a separate sheet of paper you can graph your independent and dependent variable. **Hint:** The independent variable goes on the x axis. The dependent variable goes on the y axis.